

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Docket No.: VOGEL

In re Application of:)	
)	
HARTMUT VOGEL)	
)	
Appl. No.: 10/595,238)	
)	Confirmation No.: 5351
Int. Filing Date: September 27, 2004)	
)	
For: SQUIRREL-CAGE ROTOR)	

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

S I R:

In accordance with 37 C.F.R. 1.56, applicant wishes to call the attention of attention of the Examiner to the references listed on enclosed form PTO-1449 which were cited in the International Search Report issued by the European Patent Office with regard to the corresponding International patent application No. PCT/EP2004/010815, respectively. Applicant does not admit that any of the cited documents constitutes prior art against the pending application.

Copies of these references are submitted herewith along with form PTO-1449. The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

- ☐ This Information Disclosure Statement is filed within three months of the filing date of a national application other than a continued prosecution application under 1.53(d), so that no fee under 37 C.F.R. §1.97 is due.
- ☒ This Information Disclosure Statement is filed within three months of the date of entry of the national stage as set forth in 1.491 in an international application, so that no fee under 37 C.F.R. §1.97 is due.
- ☐ This Information Disclosure Statement is filed before the mailing of a first Office Action on the merits, so that no fee under 37 C.F.R. §1.97 is due.
- ☐ This Information Disclosure Statement is filed before the mailing of a first Office Action after the filing of a request for continued examination under §1.114, so that no fee under 37 C.F.R. §1.97 is due.
- ☐ This Information Disclosure Statement is filed after the issuance of a first office but before issuance of a final action under §1.113, or a notice of allowance under §1.311.
- ☐ This Information Disclosure Statement is submitted after the mailing of a final action or a notice of allowance, but before payment of the issue fee.
- ☐ The undersigned submits the following statement requesting consideration of this statement:
The undersigned hereby states:
 - ☐ That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement;
 - ☐ That no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the statement after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in §1.56(c) more than three months prior to the filing of the information disclosure statement.

☐ The fee of \$180.00 set forth in 1.17(p).

☐ The Commissioner is hereby authorized to charge the fee as set forth in 1.17(p), and any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.

☒ The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. 06-0502.

In order to satisfy the requirement under 37 C.F.R. §1.98(a)(3) for a concise explanation of the relevance of each item of information, applicant herewith submits a copy of the International Search Report. In addition, applicant notes with respect to any information that is not in English language as follows:

German Patent No. DE 195 42 962 C1 describes a short-circuit rotor having a squirrel-cage rotor (1) with rotor rods (2) of a good electrical conductor positioned in respective slots (12) of a rotor laminations packet (6) and short-circuit rings (3,4) at either end of the latter, connected to the projecting ends of the rotor rods. The short-circuit rings are provided by slotted lamination packets with Cu laminations (7), arranged in a number of relatively spaced partial lamination packets, for forming radial cooling channels (9).

German Auslegeschrift DE 11 16 311 describes a squirrel-cage winding having rods connected to short-circuit rings. The rods do not rest against the slot base in the area of the ends of the laminated core.

German Auslegeschrift DE 2 120 537 describes a squirrel-cage rotor having rotor rod ends being connected with axially compliant zones of short-circuit rings in an electrically conductive and mechanically rigid manner. The short-circuit rings are mounted on the rotor shaft and have an axial protrusion anchored in a conforming central recess of a mechanically more solid support ring. The short-circuit ring and the support ring are centered directly on the rotor shaft on an axially immobile manner.

The above-identified application discloses and claims an invention patentable over this prior art.

Entry of the references above set forth into the file of the above application is believed to be in order and is respectfully requested.

Respectfully submitted

By: 

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Form PTO-1449U.S. Department of Commerce
Patent and Trademark Office**INFORMATION DISCLOSURE CITATION**

Attorney's Docket No. VOGEL	Applicant HARTMUT VOGEL	Appl. No. 10/595,238
Int. Filing Date September 27, 2004	Group	Examiner

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date, if appropriate
	5,990,595	11-23-1999	Crowell			
	5,185,918	02-16-1993	Shafer, Jr			

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation
	JP 56 006657 A	01-23-1981	Japan			abstract
	JP 59 209050 A	11-27-1984	Japan			abstract
	GB 518 315 A	02-23-1940	Great Britain			
	WO 02/17461 A	02-28-2002	PCT			abstract
	JP 2001078409 A	03-23-2001	Japan			abstract
	JP 09084311 A	03-28-1997	Japan			abstract
	DE 195 42 962 C	11-28-1996	Germany			no
	DE 11 16 311	11-02-1961	Germany			no
	DE 2 120 537	09-14-1972	Germany			no

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner:	Date considered:	

*Examiner: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP2004/010815

A. CLASSIFICATION OF SUBJECT MATTER		
IPC 7 H02K15/00 H02K17/16 H02K1/26		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED		
Minimum documentation searched (classification system followed by classification symbols)		
IPC 7 H02K		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)		
EPO-Internal, WPI Data, PAJ		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 990 595 A (CROWELL JAMES ROBERT) 23 November 1999 (1999-11-23)	1, 2, 4, 5, 7-13
Y	column 1, line 37 - line 54 column 3, line 15 - line 30 column 5, line 33 - column 7, line 55; figures 5-7	3
X	PATENT ABSTRACTS OF JAPAN vol. 0050, no. 55 (E-052), 16 April 1981 (1981-04-16) - & JP 56 006657 A (TOSHIBA CORP), 23 January 1981 (1981-01-23)	1, 2, 4, 6-11, 13
A	abstract; figures 1, 2, 6	3
-/-		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search		Date of mailing of the international search report
21 January 2005		01/02/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax (+31-70) 340-3016		Authorized officer Sedlmeyer, R

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP2004/010815

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 0090, no. 75 (E-306), 4 April 1985 (1985-04-04) -& JP 59 209050 A (MITSUBISHI DENKI KK), 27 November 1984 (1984-11-27) abstract; figure 2	10-12
Y	GB 518 315 A (GEN ELECTRIC CO LTD; HENRY CHARLES EDWARD JACOBY) 23 February 1940 (1940-02-23)	3
A	page 1; figures 3,5	4
A	US 5 185 918 A (SHAFER JR GEORGE G) 16 February 1993 (1993-02-16) column 2, line 10 - line 61; figure 1	1,10
A	WO 02/17461 A (HENNING HOLGER ; KUEMMLEE HORST (DE); SIEMENS AG (DE)) 28 February 2002 (2002-02-28) page 2, line 19 - line 25 page 4, line 21 - page 5, line 9; figures 1-3	1,4

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/010815

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5990595	A	23-11-1999	CA 2215765 A1	04-04-1998
JP 56006657	A	23-01-1981	NONE	
JP 59209050	A	27-11-1984	NONE	
GB 518315	A	23-02-1940	NONE	
US 5185918	A	16-02-1993	NONE	
WO 0217461	A	28-02-2002	DE 10043329 A1	07-03-2002
			WO 0217461 A2	28-02-2002
			EP 1312154 A2	21-05-2003
			NO 20030690 A	12-02-2003
			US 2004012293 A1	22-01-2004